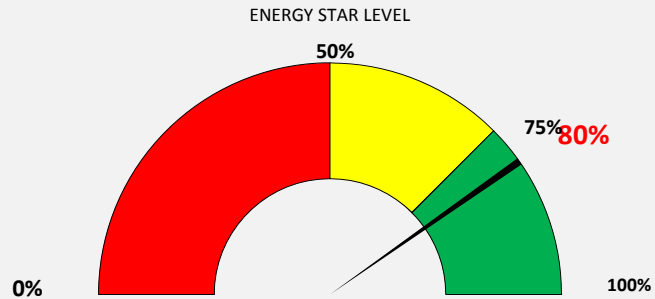


# MONTHLY UTILITY EFFICIENCY BREAKDOWN AND ANALYSIS

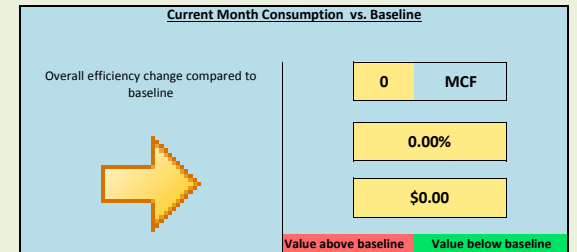
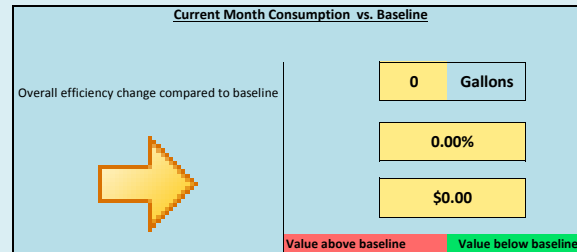
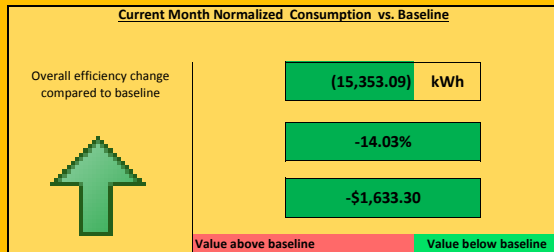


Breakdown: 50% = national average  
 50% < X < 75% → above national average, but room for improvement  
 X > 75% → approaching maximum efficiency

## ELECTRICITY

## WATER

## GAS



### Important Observations and Notes

May 2018 Normalized consumption shows a reduction 15,353 kWh compared to the 2013 baseline. This reduction of 14.03% translates into savings of \$1,633.30

- 2018 kW level has decreased by 67 kW compared to 2017.
- Power Factor is at 88.8%.
- Energy Star number is at 80%

### Important Observations and Notes

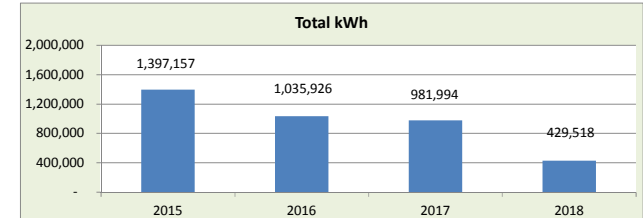
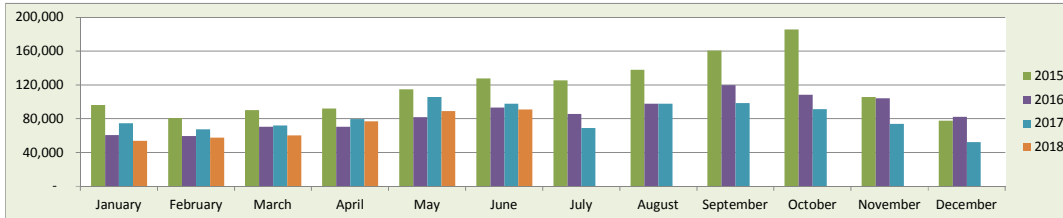
### Important Observations and Notes

Site Name: Royal ISD - Elementary School  
 Site Address: 2222 DURKIN RD BROOKSHIRE TX 77423  
 ESI ID #: 1008901023812246550102  
 Meter #: 726247  
 Building Type: School  
 Building Size (sq. ft.): 100,856

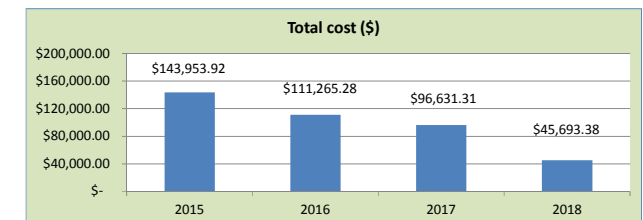
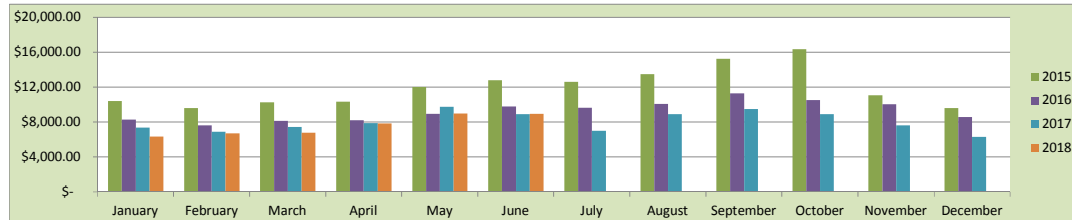


**Electricity**

| Consumption - Kwh |         |          |        |        |         |         |         |         |           |         |          |          |           |         |  |  |
|-------------------|---------|----------|--------|--------|---------|---------|---------|---------|-----------|---------|----------|----------|-----------|---------|--|--|
| Year              | January | February | March  | April  | May     | June    | July    | August  | September | October | November | December | Total kWh | Average |  |  |
| 2015              | 96,271  | 80,721   | 90,393 | 92,140 | 115,038 | 127,920 | 125,609 | 138,159 | 160,930   | 186,132 | 105,801  | 78,043   | 1,397,157 | 116,430 |  |  |
| 2016              | 60,668  | 59,612   | 70,560 | 70,569 | 81,873  | 93,554  | 85,690  | 98,037  | 120,000   | 108,542 | 104,506  | 82,315   | 1,035,926 | 86,327  |  |  |
| 2017              | 74,643  | 67,630   | 72,101 | 79,601 | 106,024 | 98,087  | 69,330  | 98,086  | 98,662    | 91,326  | 73,943   | 52,561   | 981,994   | 81,833  |  |  |
| 2018              | 53,962  | 57,738   | 60,538 | 77,150 | 89,058  | 91,072  |         |         |           |         |          |          | 429,518   | 71,586  |  |  |

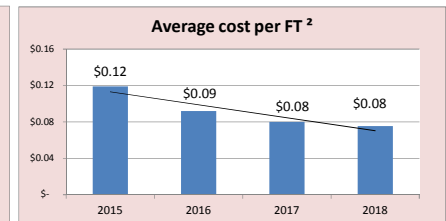
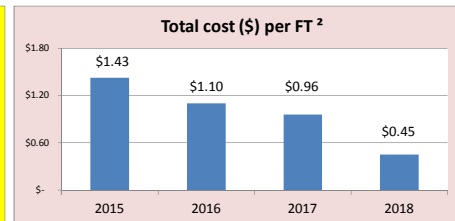
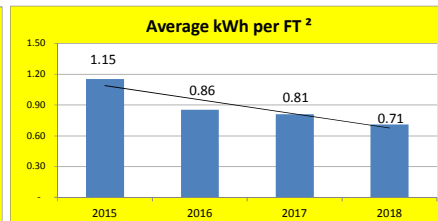
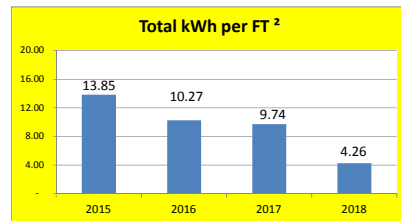


| Cost - USD(\$) |              |             |              |              |              |              |              |              |              |              |              |             |                 |              |  |  |
|----------------|--------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|-----------------|--------------|--|--|
| Year           | January      | February    | March        | April        | May          | June         | July         | August       | September    | October      | November     | December    | Total cost (\$) | Average cost |  |  |
| 2015           | \$ 10,419.05 | \$ 9,631.18 | \$ 10,285.79 | \$ 10,332.61 | \$ 12,026.32 | \$ 12,820.90 | \$ 12,635.76 | \$ 13,492.72 | \$ 15,264.65 | \$ 16,357.32 | \$ 11,072.67 | \$ 9,614.95 | \$ 143,953.92   | \$ 11,996.16 |  |  |
| 2016           | \$ 8,282.14  | \$ 7,646.70 | \$ 8,138.64  | \$ 8,229.20  | \$ 8,956.80  | \$ 9,800.09  | \$ 9,641.62  | \$ 10,094.26 | \$ 11,301.23 | \$ 10,522.78 | \$ 10,042.68 | \$ 8,609.14 | \$ 111,265.28   | \$ 9,272.11  |  |  |
| 2017           | \$ 7,384.35  | \$ 6,922.84 | \$ 7,461.68  | \$ 7,902.03  | \$ 9,771.22  | \$ 8,917.42  | \$ 6,998.19  | \$ 8,917.42  | \$ 9,493.44  | \$ 8,903.67  | \$ 7,644.81  | \$ 6,314.24 | \$ 96,631.31    | \$ 8,052.61  |  |  |
| 2018           | \$ 6,348.04  | \$ 6,738.54 | \$ 6,793.29  | \$ 7,857.98  | \$ 8,981.69  | \$ 8,973.84  |              |              |              |              |              |             | \$ 45,693.38    | \$ 7,615.56  |  |  |



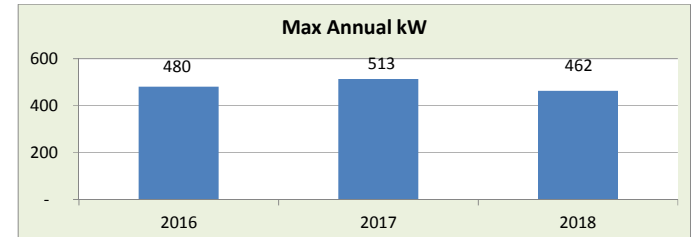
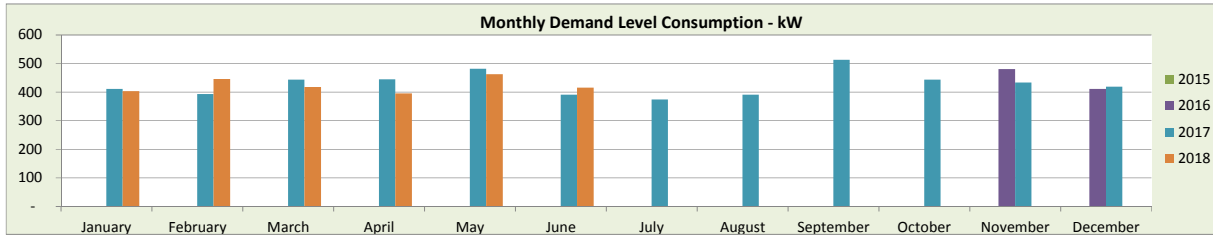
| Consumption per FT <sup>2</sup> (kWh) |         |          |       |       |      |      |      |        |           |         |          |          |                               |                                 |  |  |
|---------------------------------------|---------|----------|-------|-------|------|------|------|--------|-----------|---------|----------|----------|-------------------------------|---------------------------------|--|--|
| Year                                  | January | February | March | April | May  | June | July | August | September | October | November | December | Total kWh per FT <sup>2</sup> | Average kWh per FT <sup>2</sup> |  |  |
| 2015                                  | 0.95    | 0.80     | 0.90  | 0.91  | 1.14 | 1.27 | 1.25 | 1.37   | 1.60      | 1.85    | 1.05     | 0.77     | 13.85                         | 1.15                            |  |  |
| 2016                                  | 0.60    | 0.59     | 0.70  | 0.70  | 0.81 | 0.93 | 0.85 | 0.97   | 1.19      | 1.08    | 1.04     | 0.82     | 10.27                         | 0.86                            |  |  |
| 2017                                  | 0.74    | 0.67     | 0.71  | 0.79  | 1.05 | 0.97 | 0.69 | 0.97   | 0.98      | 0.91    | 0.73     | 0.52     | 9.74                          | 0.81                            |  |  |
| 2018                                  | 0.54    | 0.57     | 0.60  | 0.76  | 0.88 | 0.90 |      |        |           |         |          |          | 4.26                          | 0.71                            |  |  |

| Cost per FT <sup>2</sup> |          |          |          |          |          |          |          |          |           |          |          |          |                 |                                  |  |  |
|--------------------------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|----------|----------|----------|-----------------|----------------------------------|--|--|
| Year                     | January  | February | March    | April    | May      | June     | July     | August   | September | October  | November | December | Total cost (\$) | Average cost per FT <sup>2</sup> |  |  |
| 2015                     | \$ 0.103 | \$ 0.095 | \$ 0.102 | \$ 0.102 | \$ 0.119 | \$ 0.127 | \$ 0.125 | \$ 0.134 | \$ 0.151  | \$ 0.162 | \$ 0.110 | \$ 0.095 | \$ 1.43         | \$ 0.12                          |  |  |
| 2016                     | \$ 0.082 | \$ 0.076 | \$ 0.081 | \$ 0.082 | \$ 0.089 | \$ 0.097 | \$ 0.096 | \$ 0.100 | \$ 0.112  | \$ 0.104 | \$ 0.100 | \$ 0.085 | \$ 1.10         | \$ 0.09                          |  |  |
| 2017                     | \$ 0.073 | \$ 0.069 | \$ 0.074 | \$ 0.078 | \$ 0.097 | \$ 0.088 | \$ 0.069 | \$ 0.088 | \$ 0.094  | \$ 0.088 | \$ 0.076 | \$ 0.063 | \$ 0.96         | \$ 0.08                          |  |  |
| 2018                     | \$ 0.063 | \$ 0.067 | \$ 0.067 | \$ 0.078 | \$ 0.089 | \$ 0.089 |          |          |           |          |          |          | \$ 0.45         | \$ 0.08                          |  |  |

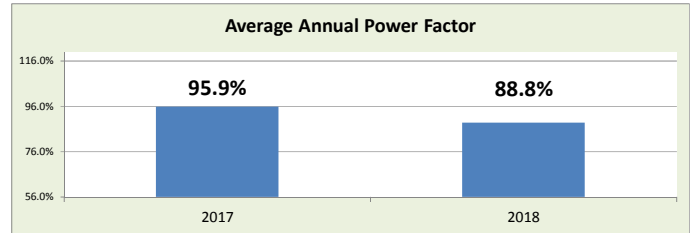
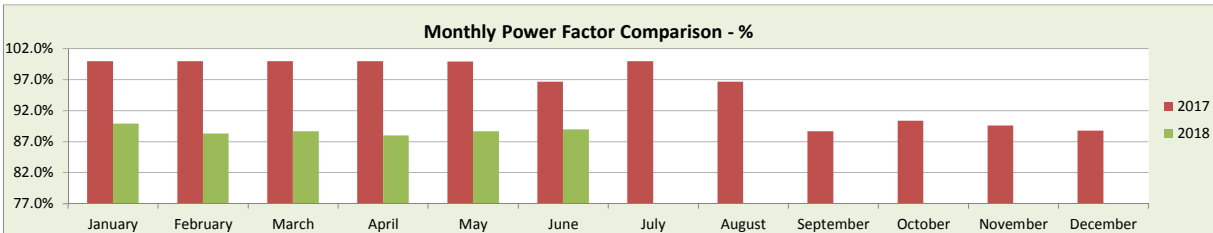


Notes:

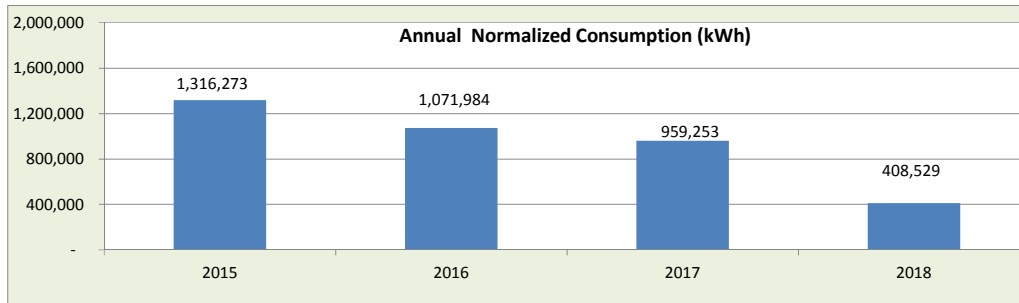
| Demand Level - kW |         |          |       |       |     |      |      |        |           |         |          |          |               |
|-------------------|---------|----------|-------|-------|-----|------|------|--------|-----------|---------|----------|----------|---------------|
| Year              | January | February | March | April | May | June | July | August | September | October | November | December | Max Annual kW |
| 2015              |         |          |       |       |     |      |      |        |           |         |          |          |               |
| 2016              |         |          |       |       |     |      |      |        |           |         | 480      | 411      | 480           |
| 2017              | 411     | 393      | 443   | 444   | 481 | 391  | 374  | 391    | 513       | 443     | 433      | 419      | 513           |
| 2018              | 403     | 446      | 418   | 395   | 462 | 415  |      |        |           |         |          |          | 462           |



| Power Factor - % |         |          |        |        |       |       |        |        |           |         |          |          |                             |
|------------------|---------|----------|--------|--------|-------|-------|--------|--------|-----------|---------|----------|----------|-----------------------------|
| Year             | January | February | March  | April  | May   | June  | July   | August | September | October | November | December | Average Annual Power Factor |
| 2015             |         |          |        |        |       |       |        |        |           |         |          |          |                             |
| 2016             |         |          |        |        |       |       |        |        |           |         |          |          |                             |
| 2017             | 100.0%  | 100.0%   | 100.0% | 100.0% | 99.9% | 96.7% | 100.0% | 96.7%  | 88.7%     | 90.4%   | 89.6%    | 88.8%    | 95.9%                       |
| 2018             | 89.9%   | 88.3%    | 88.7%  | 88.0%  | 88.7% | 89.0% |        |        |           |         |          |          | 88.8%                       |



| YEAR | ANNUAL CONSUMPTION & COST DATA |                              |               |                               | Rate (\$/kWh) | NORMALIZED ANNUAL CONSUMPTION & COST DATA |                         |          |                          |
|------|--------------------------------|------------------------------|---------------|-------------------------------|---------------|---|-------------------------|----------|--------------------------|
|      | Annual Consumption (kWh)       | kWh Change vs. Baseline Year | Total Cost    | Cost Change vs. Baseline Year |               | Annual Normalized Consumption (kWh)       | kWh Change vs Base Year | % Change | Cost Change vs Base Year |
| 2015 | 1,397,157                      | (725.57)                     | \$ 143,953.92 | (6,179.49)                    | \$ 0.1030     | 1,316,273                                 | (35,900.17)             | -2.65%   | \$ (3,698.92)            |
| 2016 | 1,035,926                      | (361,957.00)                 | \$ 111,265.28 | (38,868.13)                   | \$ 0.1074     | 1,071,984                                 | (280,189.28)            | -20.72%  | \$ (30,094.17)           |
| 2017 | 981,994                        | (415,889.28)                 | \$ 96,631.31  | (53,502.10)                   | \$ 0.0984     | 959,253                                   | (392,920.62)            | -29.06%  | \$ (38,664.64)           |
| 2018 | 429,518                        |                              | \$ 45,693.38  |                               | \$ 0.1064     | 408,529                                   |                         |          |                          |



**Notes:**

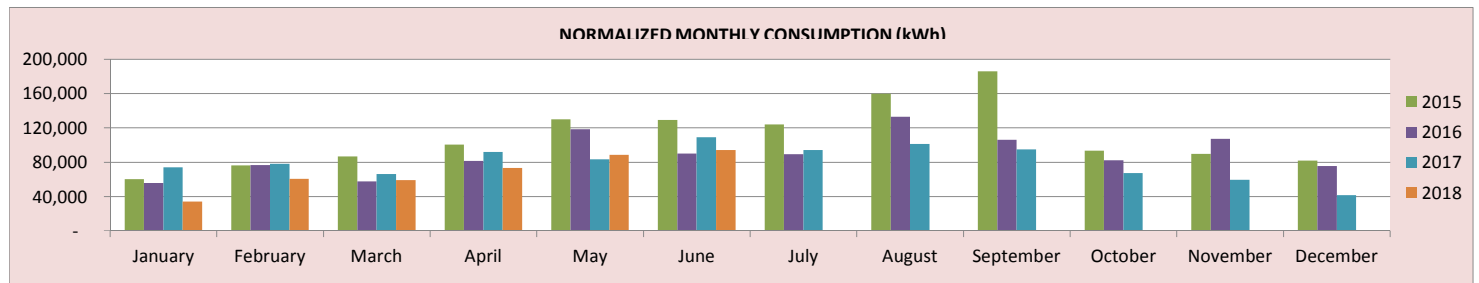
May 2018 Normalized consumption shows a reduction 15,353 kWh compared to the 2013 baseline. This reduction of 14.03% translates into savings of \$1,633.30

- 2018 kW level has decreased by 67 kW compared to 2017.
- Power Factor is at 88.8%.
- Energy Star number is at 80%

|                            |               |
|----------------------------|---------------|
| Total kWh saved since 2013 | -1,001,018.79 |
| Total savings since 2013   | -\$106,115.53 |

|      | MONTHLY CONSUMPTION (kWh) |          |        |        |         |         |         |         |           |         |          |          |
|------|---------------------------|----------|--------|--------|---------|---------|---------|---------|-----------|---------|----------|----------|
|      | January                   | February | March  | April  | May     | June    | July    | August  | September | October | November | December |
| 2015 | 96,271                    | 80,721   | 90,393 | 92,140 | 115,038 | 127,920 | 125,609 | 138,159 | 160,930   | 186,132 | 105,801  | 78,043   |
| 2016 | 60,668                    | 59,612   | 70,560 | 70,569 | 81,873  | 93,554  | 85,690  | 98,037  | 120,000   | 108,542 | 104,506  | 82,315   |
| 2017 | 74,643                    | 67,630   | 72,101 | 79,601 | 106,024 | 98,087  | 69,330  | 98,086  | 98,662    | 91,326  | 73,943   | 52,146   |
| 2018 | 53,962                    | 57,738   | 60,538 | 77,150 | 89,058  | 91,072  |         |         |           |         |          |          |

|      | NORMALIZED MONTHLY CONSUMPTION (kWh) |          |        |         |         |         |         |         |           |         |          |          |
|------|--------------------------------------|----------|--------|---------|---------|---------|---------|---------|-----------|---------|----------|----------|
|      | January                              | February | March  | April   | May     | June    | July    | August  | September | October | November | December |
| 2015 | 59,856                               | 76,088   | 86,369 | 100,380 | 129,999 | 129,035 | 123,944 | 159,889 | 186,092   | 93,152  | 89,705   | 81,764   |
| 2016 | 55,701                               | 76,568   | 57,390 | 81,272  | 118,406 | 90,031  | 89,171  | 132,844 | 106,027   | 82,162  | 107,195  | 75,217   |
| 2017 | 73,867                               | 77,926   | 65,816 | 91,774  | 83,320  | 109,057 | 93,948  | 101,120 | 94,598    | 67,253  | 59,392   | 41,182   |
| 2018 | 33,875                               | 60,234   | 58,786 | 73,224  | 88,331  | 94,079  |         |         |           |         |          |          |



|       | NORMALIZED MONTHLY CONSUMPTION CHANGE(kWh) vs Base Year |              |             |              |              |             |             |             |             |              |             |             |
|-------|---|--------------|-------------|--------------|--------------|-------------|-------------|-------------|-------------|--------------|-------------|-------------|
|       | January   | February     | March       | April        | May          | June        | July        | August      | September   | October      | November    | December    |
| 2015  | (27,754.60)   | (30,725.14)  | 8,444.11    | (51,663.74)  | (23,503.13)  | 19,602.61   | 6,499.20    | 25,738.03   | 67,050.24   | (50,491.86)  | 14,285.09   | 6,619.03    |
| 2016  | (31,909.29)   | (30,245.44)  | (20,535.35) | (70,771.58)  | (35,096.54)  | (19,400.68) | (28,273.05) | (1,307.67)  | (13,015.26) | (61,481.14)  | 31,775.00   | 71.73       |
| 2017  | (13,743.33)   | (28,886.96)  | (12,109.02) | (60,269.68)  | (70,182.61)  | (375.09)    | (23,496.36) | (33,031.18) | (24,443.99) | (76,390.47)  | (16,028.00) | (33,963.94) |
| 2018  | (53,735.33)   | (46,578.96)  | (19,139.02) | (78,819.68)  | (65,172.01)  | (15,353.09) |             |             |             |              |             |             |
| Total | (152,193.19)  | (163,319.82) | (47,397.13) | (299,421.52) | (184,015.04) | 7,311.06    | (48,867.25) | (17,344.91) | 50,418.44   | (200,540.36) | 27,553.36   | 26,797.56   |

|      | MONTHLY CONSUMPTION PERCENTAGE CHANGE vs Base Year |          |         |         |         |         |         |         |           |         |          |          |
|------|--|----------|---------|---------|---------|---------|---------|---------|-----------|---------|----------|----------|
|      | January  | February | March   | April   | May     | June    | July    | August  | September | October | November | December |
| 2015 | -31.68%  | -28.77%  | 10.84%  | -33.98% | -15.31% | 17.91%  | 5.53%   | 19.19%  | 56.32%    | -35.15% | 18.94%   | 8.81%    |
| 2016 | -36.42%  | -28.32%  | -26.35% | -46.55% | -22.86% | -17.73% | -24.07% | -0.97%  | -10.93%   | -42.80% | 42.13%   | 0.10%    |
| 2017 | -15.69%  | -27.04%  | -15.54% | -39.64% | -45.72% | -0.34%  | -20.01% | -24.62% | -20.53%   | -53.18% | -21.25%  | -45.20%  |
| 2018 | -61.33%  | -43.61%  | -24.56% | -51.84% | -42.46% | -14.03% |         |         |           |         |          |          |

|       | MONTHLY COST CHANGE vs Base Year |              |             |              |              |             |             |             |             |              |             |             |
|-------|----------------------------------|--------------|-------------|--------------|--------------|-------------|-------------|-------------|-------------|--------------|-------------|-------------|
|       | January                          | February     | March       | April        | May          | June        | July        | August      | September   | October      | November    | December    |
| 2015  | -\$2,859.65                      | -\$3,165.72  | \$870.03    | -\$5,323.09  | -\$2,421.61  | \$2,019.72  | \$669.63    | \$2,651.88  | \$6,908.42  | -\$5,202.35  | \$1,471.84  | \$681.98    |
| 2016  | -\$3,427.27                      | -\$3,248.56  | -\$2,205.63 | -\$7,601.33  | -\$3,769.60  | -\$2,083.76 | -\$3,036.71 | -\$140.45   | -\$1,397.92 | -\$6,603.48  | \$3,412.84  | \$7.39      |
| 2017  | -\$1,352.39                      | -\$2,842.57  | -\$1,191.57 | -\$5,930.73  | -\$6,906.19  | -\$36.91    | -\$2,312.12 | -\$3,250.37 | -\$2,405.37 | -\$7,517.07  | -\$1,577.21 | -\$3,499.42 |
| 2018  | -\$5,716.52                      | -\$4,955.20  | -\$2,036.06 | -\$8,385.06  | -\$6,933.18  | -\$1,633.30 |             |             |             |              |             |             |
| Total | -\$16,050.83                     | -\$17,104.22 | -\$4,999.79 | -\$31,317.25 | -\$18,961.29 | \$722.65    | -\$5,066.17 | -\$1,679.66 | \$5,345.80  | -\$20,632.92 | \$3,040.81  | \$3,007.02  |